

2nd May



Corbettmaths

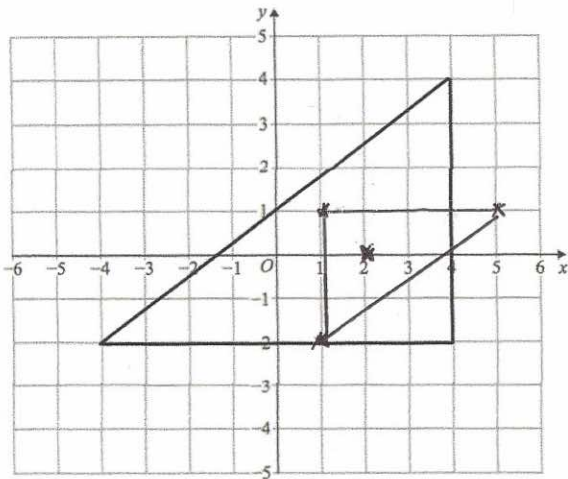
Expand and simplify

$$(2x + 11)^2 - (x - 7)^2$$

$$(2x + 11)(2x + 11) = 4x^2 + 44x + 121$$

$$(x - 7)(x - 7) = x^2 - 14x + 49$$

$$3x^2 + 58x + 72$$



Enlarge the triangle by scale factor  $-\frac{1}{2}$ ,  
using centre of enlargement  $(2, 0)$

How many times smaller is the area of the  
new triangle than the original triangle?

$$\text{Large (original)} : \frac{1}{2}(6 \times 8) = 24$$

$$\text{Small (image)} : \frac{1}{2}(3 \times 4) = 6$$

4

$$(x + 4)^2 \equiv x^2 + 8x + 16$$

$$(x + 4)^2$$

$$(x + 4)^2 < 10$$

$$(x + 4)^2 = x - 3$$

Circle the inequality

The price of a car is increased by  
20%.

The company sells 18% less cars.

Does the company take more or less  
money? By what percentage?

$$1.2 \times 0.82 = 0.984$$

1.6% less